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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Date of mailing (day/month/year)

To:

Commissioner

US Department of Commerce

United States Patent and Trademark

Office, PCT

2011 South Clark Place Room

CP2/5C24

Arlington, VA 22202

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12 December 2000 (12.12.00)	in its capacity as elected Office
International application No. PCT/FI00/00186	Applicant's or agent's file reference 49490
International filing date (day/month/year) 10 March 2000 (10.03.00)	Priority date (day/month/year) 10 March 1999 (10.03.99)
Applicant	
VIALEN, Jukka et al	

	X in the demand filed with the International Preliminary Examining Authority on:
	04 October 2000 (04.10.00)
	in a notice effecting later election filed with the International Bureau on:
7	The election X was
	was not
	nade before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

F. Baechler

Telephone No.: (41-22) 338.83.38

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0-1	International Application No.	
0-2	International Filing Date	
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0-3	Name of receiving Office and "PCT	
	International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.90
0-5	Petition	(updated 08.03.2000)
0-5	The undersigned requests that the	
	present international application be	
•	processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the	National Board of Patents and
130	applicant)	Registration (Finland) (RO/FI)
0-7	Applicant's or agent's file reference	49490
1	Title of invention	IDENTIFIER ALLOCATION METHOD
11 ·	Applicant	IDENTIFIER ADDOCATION METHOD
H-1 .	This person is:	applicant only
11-2	Applicant for	all designated States except US
11-4	Name	NOKIA NETWORKS OY
11-5	Address:	10.
	7.66.555.	P.O. Box 300
		FIN-00045 Nokia Group
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Applicant and of inventor Applicant				
III-2-2 Applicant for Name (LAST, First) LONGONI, Fabio Visamäki 5 E 38 FIN-02130 Espoo Finland IT IT State of nationality IT State of residence FIN-02130 Espoo Finland IT IT Address: FI IT Address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicantly before the competent international Authorities as: N-1-1 Name Address: FIN-00101 Helsinki Finland FIN-00101 Helsinki FIN-00101 Helsi	111-2			
III-24 Applicant for Visamaki 5 E 38 FIN-02130 Espoo Finland IT IT IT IT IT IT IT I	111-2-1	This person is:	applicant and inventor	
III-2-5 Address: LONGONI, Fabio Visamäki 5 E 38 FIN-02130 Espoo Finland IT	III-2-2	Applicant for	1	
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III-2-7 Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the common representative; or address: V-1-1-2	111-2-6	State of nationality		
IV-1 Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent international Authorities as: Name IV-1-1 IV-1-2 Address: IV-1-3 Telephone No. IV-1-4 IV-1-5	111-2-7	State of residence	1—	
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herebyhas been appointed to act on behalf of the applicant(s) before the competent international Authorities as: Name IV-1-2 Address: IV-1-3 Telephone No. Facsimile No. P-693701 +358-9-6933944 email.box@berggren.fi V-1 Designation of States Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT CA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of the PCT V-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) PCR CH CA: AM AT AU AZ BA BB BG BR BY CA CH&LI CN CR CU CZ DE DK DM DZ EE ES FI GR				
behalf of the applicant(s) before the competent International Authorities as: Name Address: V-1-2 Address: BERGGREN OY AB	* .		agent	
competent International Authorities as: Name IV-1-2 Address: P.O. Box 16 FIN-00101 Helsinki Finland +358-9-693701 +358-9-6933944 email.box@berggren.fi V Designation of States (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) Apr: GH GM KE LS MW SD SL SZ TZ UG ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CH&LI CY DE DK ES FI FR GB GR TE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT V-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) National Patent (other kinds of protection or treatment, if GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR ZL CL KL RL SL TL LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ				
Name Address: BERGGREN OY AB P.O. Box 16 FIN-00101 Helsinki Finland +358-9-693701 +358-9-6933944 email.box@berggren.fi Posignation of States P.O. Box 16 Finland +358-9-6933944 email.box@berggren.fi Posignation of States Production or treatment, any, are specified between parentheses after the designation(s) concerned) PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT OA: BF GR	•	behalf of the applicant(s) before the		
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IV-1-3 Telephone No. +358-9-693701 +358-9-6933944 IV-1-5 e-mail email.box@berggren.fi V Designation of States Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) PCT EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of the PCT V-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) W-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) W-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) W-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) W-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) W-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) W-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) W-2 National Patent (other kinds of protection or treatment, if any are specified between parentheses after the designation of the protection or treatment, if any are specified between parentheses after the designation of the protection or treatment, if an				
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V-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) AE AL AM AT AU AZ BA BB BG BR BY CA CH&LI CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ				
V-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) AE AL AM AT AU AZ BA BB BG BR BY CA CH&LI CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ				
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V-5	December 2 Decimand of Chalamant	<u> </u>	
V-5	Precautionary Designation Statement		· ·
	In addition to the designations made	•	•
	under items V-1, V-2 and V-3, the		
	applicant also makes under Rule 4.9(b) all designations which would be		•
	permitted under the PCT except any		
	designation(s) of the State(s) indicated		
	under item V-6 below. The applicant		
	declares that those additional		•
	designations are subject to confirmation		•
	and that any designation which is not		
	confirmed before the expiration of 15		٠.
	months from the priority date is to be	<i>2</i> •	•
	regarded as withdrawn by the applicant		
	at the expiration of that time limit.		•
V-6	Exclusion(s) from precautionary	NONE	
• •	designations	NONE	
VI-1	Priority claim of earlier national		
VI-1	application		
VI-1-1	Filing date	10 March 1999 (10.03	1000)
			.1999)
VI-1-2	Number	990527	
VI-1-3	Country	FI	
VI-2	Priority document request		
	The receiving Office is requested to	VI-1	
	prepare and transmit to the International	A T - T	
	Bureau a certified copy of the earlier		
	application(s) identified above as		*
	item(s):		
VII-1	International Searching Authority	European Patent Offi	ce (EPO) (ISA/EP)
	Chosen		
VIII	Check list	number of sheets	electronic file(s) attached
VIII-1	Request	4	-
VIII-2	Description	13	_
VIII-3	Claims	2	-
VIII-4	Abstract	1	49490.txt
VIII-5	Drawings	3	1-
VIII-7	TOTAL	23	
	Accompanying items	paper document(s) attached	electronic file(s) attached
VIII-8	Fee calculation sheet		-
VIII-9	Separate signed power of attorney	✓	_
VIII-10	Copy of general power of attorney	· · · · · · · · · · · · · · · · · · ·	1-
VIII-16	PCT-EASY diskette		23 -1 - 1 - 1 - 1
			diskette
VIII-17	Other (specified):	Copy of Official	-
		Action in FI 990527	
VIII-18	Figure of the drawings which should accompany the abstract	2	
VIII-19	Language of filing of the international	English	
	application		

11-1

Date of receipt of the record copy by the International Bureau

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IX-1	Signature of applicant or agent	pati Bras
IX-1-1	Name	BERGGREN OY AB
IX-1-2	Name of signatory	Matti Brax
IX-1-3	Capacity	Patent Agent
	FOR	RECEIVING OFFICE USE ONLY
10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	*
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only	1	
0-1	International Application No.		
0-2	Date stamp of the receiving Office		
0-4	Form - PCT/RO/101 (Annex)		
•	PCT Fee Calculation Sheet	·	
0-4-1	Prepared using	PCT-EASY Vers	ion 2.90
	· ·	(updated 08.0)	3.2000)
0-9	Applicant's or agent's file reference	49490	
2	Applicant	NOKIA NETWORK	S OY, et al.
12	Calculation of prescribed fees	fee amount/multiplier	total amounts (FIM)
12-1	Transmittal fee T	₽	800
12-2	Search fee S	⇔ ⇒	5 618.71
12-3	International fee		
	Basic fee		
	(first 30 sheets) b1	2 431.8	
12-4	Remaining sheets	0	
12-5	Additional amount (X)	53.51	
12-6	Total additional amount b2	0	
12-7	b1 + b2 = B	2 431.8	
12-8	Designation fees		
	Number of designations contained in international application	84	
12-9	Number of designation fees payable (maximum 8)	8	
12-10		523.22	
12-11	Total designation fees D	4 185.76	
12-12	PCT-EASY fee reduction R	-749.16	
12-13	Total International fee (B+D-R)	⇔	5 868.4
12-14	Fee for priority document		
	Number of priority documents requested	1	
12-15	Fee per document (X)	422	·
12-16	Total priority document fee P	₽	422
12-17	TOTAL FEES PAYABLE (T+S+I+P)	⇔	12 709.11
12-19	Mode of payment	cheque	

VALIDATION LOG AND REMARKS

Validation messages	Green?
Contents	Reference number for attached copy of
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PCT-EASY INFORMATION SHEET

(For applicant use only, DO NOT submit this sheet with the international application)

VALIDATION LOG

Contents		
		Contents
	1.	· · · · · · · · · · · · · · · · · · ·
Green? Reference number for attached copy of general power of attorney not indicated.	Green?	? Reference number for attached copy of general power of attorney not indicated.

Before submitting the International Application, please carefully verify that:

- -the information contained on printed Request form is correct;
- -Box IX of the Request form has been signed;
- -all elements of the International application as indicated in Box VIII of the Request form have been attached; and,
- -the diskette containing the PCT-EASY zip file of the International Application has been enclosed and has been clearly labeled "PCT-EASY", with the applicant's or agent's file reference, and the first applicant's name.

ATTENTION

DO NOT modify any indications on the Request form printout. The attached PCT-EASY application has been locked. If an error or an omission is discovered at this time, you must copy the submitted application as a template and make the change or correction in a new application (using the submitted application as a template). You may create such a template by copying the submitted application from the "Stored Forms" folder to the "New PCT Forms" folder. Open the new (.0WO) file created in the "New PCT Forms" folder, correct the errors and proceed with the submission process again.



PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

BERGGREN OY AB P.O. Box 16 FIN-00101 Helsinki FINLANDE

Berggren Oy Ab

2 2 -09- 2000

plak/8KU

Date of mailing (day/month/year)

14 September 2000 (14.09.00)

Applicant's or agent's file reference

49490

IMPORTANT NOTICE

International application No. PCT/FI00/00186

International filing date (day/month/year)
10 March 2000 (10.03.00)

Priority date (day/month/year) 10 March 1999 (10.03.99)

Applicant

NOKIA NETWORKS OY et al

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: AU,DZ,KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CN,CR,CU,CZ,DE,DK,DM,EA,EE,EP,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,NO,NZ,OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

 Enclosed with this Notice is a copy of the international application as published by the International Bureau on 14 September 2000 (14.09.00) under No. WO 00/54521

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

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Facsimile No. (41-22) 740,14,35



9 April 2001

European Patent Office D-80298 Munich Germany

FAX: 999-49-89 2399 4465

Authorized Officer: Schweitzer, J-C

Our ref: 49490/SKU/PKK

REPLY TO WRITTEN OPINION INTERNATIONAL PATENT APPLICATION PCT/FI00/00186 APPLICANT: NOKIA NETWORKS OY

Due Date: 15 April 2001

In response to the Written Opinion mailed on 15.01.2001 we enclose amended claims and respectfully present the following.

Enclosed claim 1 is amended to describe in more detail the states of a mobile station and to clarify the relevant state change. Support for these amendments is on page 4, row 32 – page 5, row 12 and on page 6, row 5 and rows 21-26 of the description.

Enclosed claim 5 is amended to mention a state change from the third state to the second state, so that same terms are used in Claim 5 as in Claim 1. The other claims remain unchanged except for the reference signs, which have been added to the claims.

The paragraph on page 7 of the description, discussing the way in which the objects of the invention are reached, is amended accordingly. The last paragraph on page 13 is modified to mention the appended claims. Other modifications to the description are not made.

As the independent claim is amended to describe the states of a mobile station in more detail and to clarify the relevant state change, as suggested in the Written Opinion, we respectfully request a reconsideration of the statements regarding novelty and inventive step presented in the Written Opinion.

BERGGREN OY AB

Sirpa Kuisma Patent Attorney

Encl.

Replacement pages 7, 13-15

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• TAVARAMERKIT, LAKIASIAT: • TRADEMARKS, LEGAL MATTERS:

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S. Aspola
J. Talvitie

SUMMARY OF THE INVENTION

An object of the invention is to realize a method, which alleviates the problems of the prior art. A further object of the invention is to realize a method, which reduces signalling as compared to the known solutions.

- The objects are reached by realizing a method, in which the network checks, if a state change to a state, where a mobile station monitors a forward access channel, is needed for a mobile station, and in which a controlling radio network controller allocates a temporary mobile station identifier for a mobile station, and in which said temporary mobile station identifier is indicated to said mobile station.

 Preferably, the indication is effected by attaching the identifier to a message, which
- Preferably, the indication is effected by attaching the identifier to a message, which causes the change of the mobile station to the state, in which the mobile station needs the identifier.

The method according to the invention is characterized by that, which is specified in the characterizing part of the independent method claim. The dependent claims describe further advantageous embodiments of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

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The invention is described in more detail in the following with reference to the accompanying drawings, of which

- Figure 1 illustrates a cellular network structure according to prior art,
- 20 Figure 2 illustrates signalling according to an advantageous embodiment of the invention.
 - Figure 3 illustrates signalling according to another advantageous embodiment of the invention,
- Figure 4 illustrates signalling according to a further advantageous embodiment of the invention, and
 - Figure 5 illustrates signalling according to a still further advantageous embodiment of the invention.

Same reference numerals are used for similar entities in the figures.

identifier refers to a c-RNTI or a corresponding temporary identifier allocated and used by a radio network controller.

In view of the foregoing description it will be evident to a person skilled in the art that various modifications may be made within the scope of the invention. While a preferred embodiment of the invention has been described in detail, it should be apparent that many modifications and variations thereto are possible, all of which fall within the true spirit and scope of the invention as defined by the appended claims.

Claims

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- 1. A method for allocating a temporary mobile station identifier for a mobile station in a cellular telecommunications network, said mobile station having at least the following states: a first state, where a mobile station listens to paging channel (PCH); a second state, where a mobile station monitors forward access channel (FACH); and a third state, where a dedicated transport channel (DCH) is allocated to a mobile station, **characterised** in that the method comprises steps, in which
- the network checks, if a state change to the second state is needed for a mobile station,
- a controlling radio network controller allocates (110, 230, 310, 410) a temporary mobile station identifier for a mobile station, and
 - said temporary mobile station identifier is indicated (130, 260, 350) to said mobile station.
- 2. A method according to claim 1, characterised in that the method further comprises steps, in which
 - a controlling radio network controller allocates (110) said temporary mobile station identifier for a mobile station as a response to receiving a paging request for the mobile station from a serving radio network controller,
- said controlling radio network controller indicates (120, 130) said allocated identifier to the mobile station by attaching said allocated identifier as a parameter to a paging request transmitted to the mobile station.
 - 3. A method according to claim 2, **characterised** in that if the mobile station does not respond to the paging request, said controlling radio network controller releases (140) said temporary identifier.
- 25 4. A method according to claim 1, characterised in that the method further comprises steps, in which
 - a controlling radio network controller allocates said temporary mobile station identifier for a mobile station as a response to receiving a paging request response from the mobile station,
- said controlling radio network controller indicates said allocated identifier to the mobile station using a separate message.
 - 5. A method according to claim 1, characterised in that if in said step of checking it is found that a state change from the third state (DCH) to the second state (CCH) is needed, said allocated identifier is indicated to the mobile station

with a message that triggers the state change from the third state (DCH) to the second state (CCH).

6. A method according to claim 1, **characterised** in that said temporary mobile station identifier is used for identifying the mobile station in signalling between two radio network controllers.

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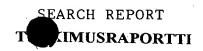
7. A method according to claim 1, **characterised** in that a dedicated temporary mobile station identifier is used for identifying the mobile station in signalling between two radio network controllers.

Patent Office

PATENTTI- JA REKISTERI LLITUS

Patentti- ja innovaatiolinja

Patent & Innovation



PATENTTIHAKEMUS NRO Appln. No.	LUOKITUS Classification
990527	H04Q 7/38, H04Q 7/22
:	

TUTKITTU AINEISTO Research material

Patenttijulkaisukokoelma (FI, SE, NO, DK, DE, CH, EP, WO, GB, US) tutkitut luokat:
Published patent specification researched classes
H04Q 7/38

sekä lisäksi patenttijulkaisukokoelmasta vain seuraavien pohjoismaiden (FI, SE, NO ja DK) osalta tutkitut luokat:

H04B 7/26, H04M 3/42, H04Q 3/00, 7/04, 7/20, 7/22, 7/30, 7/36

Tiedonhaut ja muu aineisto

Data search and other material

Seuraavat tietokannat: EPODOC, WPI, PAJ

Kategoria* Category	Julkaisun tunnistetiedot Identification data		Koskee vaatimuksia
X	EP 0805609A2 (H04Q 7/34)		1 - 6
\mathbf{X}	WO 95/10922 (H04Q 7/38)	4	_ " _
X	EP 0649267A2 (H04Q 9/00)		_ " _
X	US 5740535 (H04Q 7/00)		_ " _
X	EP 0639036A3 (H04Q 7/38)		_ "
		• •	
	·		

Relevant to claims

*) X Patentoitavuuden kannalta merkittävä julkaisu yksinään tarkasteltuna

Y Patentoitavuuden kannalta merkittävä julkaisu, kun otetaan huomioon tämä ja yksi tai useampi samaan kategoriaan kuuluva julkaisu

A Yleistä tekniikan tasoa edustava julkaisu, ei kuitenkaan patentoitavuuden este

X) Farticularly relevant if taken alone.

Päiväys Date 28. 2. 2000

Tutkija Examin

Examiner Tino Hutture

PCT

INTERNATIONAL SEARCH REPORT (PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 49490	FOR FURTHER see Notification of (Form PCT/ISA/22	Transmittal of International Scarch Report 20) as well as, where applicable, item 5 below.
International application No.	International filing date (day month year)	(Earliest) Priority Date (day/month/year)
PCT/FI 00/00186	10 March 2000	10 March 1999
Applicant		
NOKIA NETWORKS OY et al		
This international search report has applicant according to Article 18.	as been prepared by this International Search A copy is being transmitted to the Internation	ing Authority and is transmitted to the nal Bureau.
This international search report co	onsists of a total of 2 sheets.	
	y a copy of each prior art document cited in t	this report.
1 Contain alaims were foun	d unsearchable (See Box 1).	
1. Certain claims were foun	u discarchanc (see Dox 1).	
2. Unity of invention is lack	ing (See Box II).	
Z Onn, was an ease		
3. The international application international search was	ation contains disclosure of a nucleotide and/c carried out on the basis of the sequence listing	or amino acid sequence listing and the
	filed with the international application.	
	furnished by the applicant separately from	
	but not accompanied by a stater matter going beyond the disclos	ment to the effect that it did not include ure in the international application as filed
	transcribed by this Authority.	
·	·	
	the text is approved as submitted by the ap	plicant
4. With regard to the title,	the text has been established by this Author	
X		•
	Temporary identifier allocati	ion method.
e 1994 - La die eksterna		
5. With regard to the abstract,	the text is approved as submitted by the app	plicant.
	the text has been established, according to l	Rule 38.2(b), by this Authority as it appear
	in Box III. The applicant may, within one in national search report, submit comments to	nonth from the date of mailing of this inter
·		
6. The figure of the drawings to	be published with the abstract is:	-
Figure No. 2 X	as suggested by the applicant.	None of the figures.
II.		
	because the applicant failed to suggest a fig	gure.

A. CLASS	IFICATION OF SUBJECT MATTER					
IPC7: H	040 7/38 International Patent Classification (IPC) or to both national	onal classification and IPC				
	S SEARCHED	1.0	:			
Minimum documentation searched (classification system followed by classification symbols)						
IPC7: H04Q						
Documentati	on searched other than minimum documentation to the e	xtent that such documents are included in	the fields searched			
			٠.			
Electronic da	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCU	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appr	opriate, of the relevant passages	Relevant to claim No.			
Α	EP 0805609 A2 (HEWLETT-PACKARD CO	OMPANY),	1-7			
	5 November 1997 (05.11.97), abstract	figures 10,11,				
		•				
			, ,			
Α	WO 9849846 A2 (TELEFONAKTIEBOLAG 5 November 1998 (05.11.98),		1-7			
ŀ			1.7			
A	WO 9805176 A2 (AT & T WIRELESS S 5 February 1998 (05.02.98),	ERVICES,INC.), abstract	1-7			
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Furth	ner documents are listed in the continuation of Box					
"A" docum	categories of cited documents: ent defining the general state of the art which is not considered	"I" later document published after the in date and not in conflict with the appl the principle or theory underlying the	ication but cited to understand			
"E" crlier o	of particular relevance document but published on or after the international filing date	"X" document of particular relevance: the considered novel or cannot be considered.	lered to involve an inventive			
cited to	ent which may throw doubts on priority claim(s) or which is o establish the publication date of another citation or other reason (as specified)	step when the document is taken alor "Y" document of particular relevance: the	e claimed invention cannot be			
_	ent referring to an oral disclosure, use, exhibition or other	considered to involve an inventive st combined with one or more other su	ep when the document is ch documents, such combination			
	ent published prior to the international filing date but later than ority date claimed	being obvious to a person skilled in "&" document member of the same pater				
Date of th	e actual completion of the international search	Date of mailing of the international	search report			
A Augus	st 2000	04, 09, 2000				
	ailing address of the International Searching Authority	Authorized officer				
	tent Office P.B. 5818 Patentlaan 2	ELISABETH ÅSELIUS/ELY				
	40-2040, Tx 31 651 epo nl,	Telephone No.				

SA_273007

INTERNATIONA CARCH REPORT Information on patent family members

onal application No. PCT/FI 00/00186

	Patent document ed in search repor	t	Publication date		Patent family member(s)	Publication date
EP	0805609	A2	05/11/97	NONE		
WO	9849846	A2	05/11/98	AU US	7459098 A 5920814 A	24/11/98 06/07/99
MO	9805176	A2	05/02/98	EP	0909524 A	21/04/99

02/12/99



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION		ation of Transmittal of International
49490/SKI/PKK	• •		/ Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/monti	h/year)	Priority date (day/month/year)
PCT/FI00/00186	10/03/2000		10/03/1999
International Patent Classification (IPC) or I H04Q7/00	national classification and IPC	,	
* v	<u> </u>		
Applicant			
NOKIA NETWORKS OY et al.		·	
		d by this Inte	ernational Preliminary Examining Authority
and is transmitted to the applicant	according to Article 36.		
		:	
2. This REPORT consists of a total	of 4 sheets, including this cover s	heet.	
☐ This report is also accompan	ind his ANNEVES in shoots of th	ha daecrintia	n, claims and/or drawings which have
			n, claims and/or drawings which have a ectifications made before this Authority
	607 of the Administrative Instruct		
These annexes consist of a total	of 4 chapts		
These annexes consist of a total	of 4 sneets.		
3. This report contains indications re	lating to the following items:		
l ⊠ Basis of the report	•		
Ⅱ □ Priority			
III Non-establishment of	opinion with regard to novelty, in	ventive step	and industrial applicability
IV 🗆 Lack of unity of inven	tion		
	under Article 35(2) with regard to tions suporting such statement	novelty, inve	entive step or industrial applicability;
VI Certain documents of	ited		
VII Certain defects in the	international application	•	
VIII Certain observations	on the international application		
		•	
		··	
Date of submission of the demand	Date of	completion of	this report
		oompic.co.	uno rope.
04/10/2000	08.06.2	2001	
Name and mailing address of the internatio	nal Authori	zed officer	#MEDIES MITTIN
preliminary examining authority:			
European Patent Office D-80298 Munich	Schw	eitzer, J-C	
Tel. +49 89 2399 - 0 Tx: 5236		onzoi, c c	The state of the s
Fax: +49 89 2399 - 4465	Telepho	one No. +49 89	9 2399 8963

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/FI00/00186

۱.	Bas	is	of	the	rep	ort

1. With regard to the elements of the international application (Replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originand are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:						ort as "originally filed"			
	1-6,	8-12	as originally filed						
	7,13	3	as received on	11/04/2001	with letter of	09/04/2001			
	Clai	ims, No.:							
	1-7		as received on	11/04/2001	with letter of	09/04/2001			
	Dra	wings, sheets:							
	1/3-		as originally filed						
					·				
						•			
	 With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: , which is: the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)). 					r this item. which is:			
		the language of pu	ublication of the international app	olication (und	er Rule 48.3(b)).				
		the language of a 55.2 and/or 55.3).	translation furnished for the pur	poses of inter	national preliminary e	xamination (under Rule			
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:									
	□ .	contained in the in	ternational application in written	form.					
		filed together with	the international application in o	omputer read	lable form.				
		furnished subsequently to this Authority in written form.							
		furnished subsequ	ently to this Authority in comput	er readable f	orm.				
		The statement tha	t the subsequently furnished wr pplication as filed has been furn	itten sequenc		eyond the disclosure in			
4.	The	amendments have	e resulted in the cancellation of:						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/FI00/00186

		the description,	pages:	:			0.						
	LJ	the claims,	Nos.:	•									
		the drawings,	sheets:										
5.		This report has been considered to go bey	ond the d	isclosure	as filed	d (Rule 7	'0.2(c))	:					•
		(Any replacement she report.)	eet contai	ining such	amen	dments	must be	e referr	ed to un	der item	1 1 and	annexe	ed to this
						·							
6.	Add	itional observations, if	necessai	ry:			•						
				•									
.,													
V.	citat	soned statement und tions and explanation	der Articl ns suppo	e 35(2) w orting suc	ith reg h stat	jard to r ement	ovelty	, inven	tive ste	p or ind	ustrial	applic	ability;
1.	State	ement	•										
	Nov	elty (N)	Yes: No:	Claims Claims	1 - 7			٠		·			
	Inve	ntive step (IS)	Yes: No:	Claims Claims	1 - 7								
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1 - 7				•				
2	Citat	ions and evaluations							•				

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Concerning section V.2 (reasoned statement under Article 35(2) PCT)

Claim 1 relates to a method for allocating a temporary mobile station identifier in a cellular telecommunications network, such as the UMTS system, wherein the network checks if a state change from a first state, where the mobile listens to a paging channel (PCH), or from a third state, where a dedicated transport channel (DCH) is allocated to the mobile, to a second state, where the mobile monitors a forward access channel (FACH), is needed for the mobile. If such a state change is required, a controlling radio network controller (RNC) allocates and transmits a temporary mobile station identifier (c-RNTI) to the mobile, preferably in the paging request sent thereto.

Such a method as defined in claim 1, which requires much less signalling than the standard UMTS-technique wherein a Cell Update Procedure is used after a DCH-FACH transition for obtaining the new c-RNTI, is neither taught, nor rendered obvious, alone or in combination, by the prior art documents cited in the International Search Report, which disclose methods for allocating a temporary mobile station identifier (TMSI) in a GSM telecommunications system. In said known methods, see e.g. the cited EP-A-0 805 609, a new TMSI is allocated to the subscriber when he enters a new location area, without any hint at the claimed concept of allocating and sending a temporary mobile station identifier to a mobile when a particular state change, i.e. from PCH or DCH to PACH, is needed.

Claim 1 is therefore novel and considered to involve the required inventive step, Articles 33(2) and (3) PCT. The subject-matter of claim 1 is also industrially applicable.

Dependent claims 2 ro 7 relate to further implementing details of the method defined by claim 1 to which they refer and are thus equally novel, inventive and industrially applicable.

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SUMMARY OF THE INVENTION

An object of the invention is to realize a method, which alleviates the problems of the prior art. A further object of the invention is to realize a method, which reduces signalling as compared to the known solutions.

The objects are reached by realizing a method, in which the network checks, if a state change to a state, where a mobile station monitors a forward access channel, is needed for a mobile station, and in which a controlling radio network controller allocates a temporary mobile station identifier for a mobile station, and in which said temporary mobile station identifier is indicated to said mobile station.

Preferably, the indication is effected by attaching the identifier to a message, which causes the change of the mobile station to the state, in which the mobile station needs the identifier.

The method according to the invention is characterized by that, which is specified in the characterizing part of the independent method claim. The dependent claims describe further advantageous embodiments of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention is described in more detail in the following with reference to the accompanying drawings, of which

- Figure 1 illustrates a cellular network structure according to prior art,
- 20 Figure 2 illustrates signalling according to an advantageous embodiment of the invention,
 - Figure 3 illustrates signalling according to another advantageous embodiment of the invention.
- Figure 4 illustrates signalling according to a further advantageous embodiment of the invention, and
 - Figure 5 illustrates signalling according to a still further advantageous embodiment of the invention.

Same reference numerals are used for similar entities in the figures.

identifier refers to a c-RNTI or a corresponding temporary identifier allocated and used by a radio network controller.

In view of the foregoing description it will be evident to a person skilled in the art that various modifications may be made within the scope of the invention. While a preferred embodiment of the invention has been described in detail, it should be apparent that many modifications and variations thereto are possible, all of which fall within the true spirit and scope of the invention as defined by the appended claims.

Claims

<u> 1</u>04-2001

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- 1. A method for allocating a temporary mobile station identifier for a mobile station in a cellular telecommunications network, said mobile station having at least the following states: a first state, where a mobile station listens to paging channel (PCH); a second state, where a mobile station monitors forward access channel (FACH); and a third state, where a dedicated transport channel (DCH) is allocated to a mobile station, characterised in that the method comprises steps, in which
- the network checks, if a state change to the second state is needed for a mobile station,
- a controlling radio network controller allocates (110, 230, 310, 410) a temporary mobile station identifier for a mobile station, and
 - said temporary mobile station identifier is indicated (130, 260, 350) to said mobile station.
- 2. A method according to claim 1, characterised in that the method further comprises steps, in which
 - a controlling radio network controller allocates (110) said temporary mobile station identifier for a mobile station as a response to receiving a paging request for the mobile station from a serving radio network controller,
- said controlling radio network controller indicates (120, 130) said allocated identifier to the mobile station by attaching said allocated identifier as a parameter to a paging request transmitted to the mobile station.
 - 3. A method according to claim 2, characterised in that if the mobile station does not respond to the paging request, said controlling radio network controller releases (140) said temporary identifier.
- 25 4. A method according to claim 1, characterised in that the method further comprises steps, in which
 - a controlling radio network controller allocates said temporary mobile station identifier for a mobile station as a response to receiving a paging request response from the mobile station,
- said controlling radio network controller indicates said allocated identifier to the mobile station using a separate message.
 - 5. A method according to claim 1, characterised in that if in said step of checking it is found that a state change from the third state (DCH) to the second state (CCH) is needed, said allocated identifier is indicated to the mobile station

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with a message that triggers the state change from the third state (DCH) to the second state (CCH).

- 6. A method according to claim 1, **characterised** in that said temporary mobile station identifier is used for identifying the mobile station in signalling between two radio network controllers.
- 7. A method according to claim 1, characterised in that a dedicated temporary mobile station identifier is used for identifying the mobile station in signalling between two radio network controllers.

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full time or two-letter code of that Authority may be indicated the applicant on the line below:

IPEA/EPO

PCT

CHAPTER II

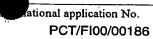
DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For	International Preliminary	y Examining Authority	use only
Identification of IPEA		Date of receipt of D	EMANIT
Box No. I IDENTIFICATION OF T	HE INTERNATIONAL		Applicant's or agent's file reference
TAir-al and IAir- NT-	7-4	42-4-4-4-4	49490/SKU/PKK
International application No.	International filing date		(Earliest) Priority date (day/month/year)
PCT/FI00/00186	10 March 2000 (10.	.03.00)	10 March 1999 (10.03.99)
Title of invention IDENTIFIER ALLOCATION METH	OD		
Box No. II APPLICANT(S)			
Name and address: (Family name followed by g The address must include po	iven name; for a legal entity, stal code and name of country.	full official designation.	Telephone No.:
NOKIA NETWORKS OY P.O. Box 300, FIN-00045 NOKIA G	SROUP, Finland		Facsimile No.:
			Teleprinter No.:
State (that is, country) of nationality: Finland		State (that is, countr Finland	y) of residence:
Name and address: (Family name followed by gi	ven name; for a legal entity, fu	ll official designation. The c	address must include postal code and name of country.)
VIALEN, Jukka Tyrskykuja 3 b 13, FIN-02130 ESP	OO, Finland		
State (that is, country) of nationality: Finland		State (that is, country Finland	y) of residence:
Name and address: (Family name followed by git LONGONI, Fabio Visamäki 5 E 38, FIN-02130 ESPC			address must include postal code and name of country.)
State (that is, country) of nationality:	:	State (that is, country) Finland	of residence:
Further applicants are indicated on a	a continuation sheet.		

Sheet No. 2



Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CO	RRESPONDENCE			
The following person is agent common representative				
and X has been appointed earlier and represents the applicant(s) also for international pre-	eliminary examination.			
is hereby appointed and any earlier appointment of (an) agent(s)/common represer	ntative is hereby revoked.			
is hereby appointed, specifically for the procedure before the International Prelimi the agent(s)/common representative appointed earlier.	nary Examining Authority, in addition to			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	Telephone No.:			
BERGGREN OY AB	+358 9 693 701			
P.O. Box 16, FIN-00101 HELSINKI, Finland	Facsimile No.:			
	+358 9 693 3944			
	Teleprinter No.:			
Address for commence local Marketin Last Last				
Address for correspondence: Mark this check-box where no agent or common respace above is used instead to indicate a special addr ess to which correspondence	should be sent.			
Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION				
Statement concerning amendments:*	-			
1. The applicant wishes the international preliminary examination to start on the basis of:				
the international application as originally filed	· .			
the description as originally filed	·			
as amended under Article 34				
the claims as originally filed	e de la companya de			
as amended under Article 19 (together with any accompanying	statement)			
as amended under Article 34				
the drawings as originally filed				
the drawings as originally filed as amended under Article 34				
2 The applicant wishes any amendment to the claims under Article 19 to be consider	ed as reversed.			
3. The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). (This checkbox may be marked only where the time limit under Article 19 has not yet expired.)				
* Where no check-box is marked, international preliminary examination will start on the as originally filed or, where a copy of amendments to the claims under Article 19 and/or and under Article 34 are received by the International Preliminary Examining Authority before or the international preliminary examination report, as so amended.	nendments of the international application			
Language for the purposes of international preliminary examination: English				
which is the language in which the international application was filed.				
which is the language of a translation furnished for the purposes of internation	al search.			
which is the language of publication of the international application.				
which is the language of the translation (to be) furnished for the purposes of ir	nternational preliminary examination.			
Box No. V ELECTION OF STATES				
The applicant hereby elects all eligible States (that is, all States which have been designate the PCT)	d and which are bound by Chapter II of			
excluding the following States which the applicant wishes not to elect:				

Sheet No. 3.

lational application No.
PCT/FI00/00186

Box No. VI CHECK LIST					
The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:	For International Preliminary Examining Authority use only received not received				
1. translation of international application : sheets	lectived not received				
2. amendments under Article 34 : sheets					
3. copy (or, where required, translation) of amendments under Article 19 : sheets					
4. copy (or, where required, translation) of statement under Article 19 : sheets					
5. letter : sheets					
6. other (specify) sheets					
The demand is also accompanied by the item(s) marked below:					
1 X fee calculation sheet 4. statement 6	explaining lack of signature				
	and or amino acid sequence listing in eadable form				
3. copy of general power of attorney; reference number, if any: 6. other (spec					
Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESE	ENTATIVE				
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if su					
	to the service of the				
BERGGREN OY AB					
Sign leusma					
Sirpa Kuisma					
Patent Agent HELSINKI, Finland 4 October 2000					
For International Preliminary Examining Authority to	use only				
1. Date of actual receipt of DEMAND:):				
Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):					
3. The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.	The applicant has been informed accordingly.				
4. The date of receipt of the demand is WITHIN the period of 19 months from Rule 80.5.	m the priority date as extended by virtue of				
Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.					
For International Bureau use only					
Demand received from IPEA on:					



FEE CALCULATION SHEET

Annex to the Demand for international preliminary examination

International application No. PCT/FI00/00186	For International Preliminary Examining Authority use only
Applicant's or agent's file reference 49490/SKU/PKK	Date stamp of the IPEA
Applicant	
NOKIA NETWORKS OY	
Calculation of prescribed fees	
1. Preliminary examination fee	EUR 1533 P
2. Handling fee (Applicants from certain States are	
entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)	EUR 147 H
3. Total of prescribed fees	
Add the amounts entered at P and H and enter total in the TOTAL box	EUR 1680
	TOTAL
Mode of Payment	
authorization to charge deposit account with the IPEA (see below) cash	
	nue stamps
postal money order coup	ons
	(specify): ifer to account 0380
Deposit Account Authorization (this mode of payment may n	ot be available at all IPEAs)
<u> </u>	the total fees indicated above to my deposit account.
(this check-box may be marked of authorized to charge any defining deposit account.	only if the conditions for deposit accounts of the IPEA so permit) is hereby ciency or credit any overpayment in the total fees indicated above to
Deposit Account Number Date (day/month/year)	Signature

PATENT COOPERATION TREATY



From the:

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

BERGGREN OY AB P.O. Box 16 00101 Helsinki **FINLANDE**

Geragien By. Ab

17-01-2001 SKULTKER

WRITTEN OPINION

(PCT Rule 66)

Date of mailing (day/month/year)

REPLY DUE

15.01.2001

Applicant's or agent's file reference

49490/SKI/PKK

within 3 month(s)

Priority date (day/month/year)

from the above date of mailing

International application No.

International filing date (day/month/year)

10/03/1999

10/03/2000 PCT/FI00/00186 International Patent Classification (IPC) or both national classification and IPC

H04Q7/00

Applicant

NOKIA NETWORKS OY et al.

- This written opinion is the first drawn up by this International Preliminary Examining Authority.
- 2. This opinion contains indications relating to the following items:
 - Basis of the opinion
 - П Priority
 - Non-establishment of opinion with regard to novelty, inventive step and industrial applicability HI
 - П Lack of unity of invention IV
 - Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - Certain document cited
 - Certain defects in the international application VII
 - Certain observations on the international application
- The applicant is hereby invited to reply to this opinion.

When? See the time limit indicated above. The applicant may, before the expiration of that time limit,

request this Authority to grant an extension, see Rule 66.2(d).

By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

For an additional opportunity to submit amendments, see Rule 66.4.

For an informal communication with the examiner, see Rule 66.6.

For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.

The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 10/07/2001.

Name and mailing address of the international preliminary examining authority:

How?

Aiso:

European Patent Office D-80298 Munich

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

Authorized officer / Examiner

Schweitzer, J-C

Formalities officer (incl. extension of time limits)

Finnie, A

Telephone No. +49 89 2399 8251



WRITTEN OPINION

International application No. PCT/FI00/00186

I. Basis	of the	opinion
----------	--------	---------

1.	This opinion has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed".):							
	Description, pages:							
	1-10	3	as originally filed					
	Cla	ims, No.:						
	1-7		as originally filed					
	Dra	wings, sheets:						
	1/3-	3/3	as originally filed					
2. With regard to the language, all the elements marked above were available or furnished to this Authority in language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: , which is:								
			translation furnished for the purposes of the international search (under Rule 23.1(b)).					
			ublication of the international application (under Rule 48.3(b)).					
			translation furnished for the purposes of international preliminary examination (under Rule					
3.		With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the ir	ternational application in written form.					
		filed together with	the international application in computer readable form.					
		furnished subsequ	ently to this Authority in written form.					
		furnished subsequ	ently to this Authority in computer readable form.					
			t the subsequently furnished written sequence listing does not go beyond the disclosure in pplication as filed has been furnished.					
		The statement the listing has been fu	t the information recorded in computer readable form is identical to the written sequence rnished.					

4. The amendments have resulted in the cancellation of:

the description,	pages:
the claims,	Nos.:
,	

WRITTEN OPINION

International application No. PCT/FI00/00186

		the drawings,	sheets:	
5.	☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):			
		(Any replacement sh report.)	eet containing	g such amendments must be referred to under item 1 and annexed to this
6.	Add	ditional observations, i	f necessary:	
-			*	
٧.	 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrialapplicability citations and explanations supporting such statement 			
1.		tement velty (N)	Claims	1
	Inve	entive step (IS)	Claims	1
	Indi	ustrial applicability (IA)	Claims	
2.		ations and explanation e separate sheet	s	

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

Concerning section V.2 (reasoned statement under Rule 66.2(a)(ii) PCT)

The following documents (D) are referred to in this written opinion:

D1 = EP-A-0.805.609

D2 = WO-A-98/49846

D3 = WO-A-98/05176

Each of the above-mentioned prior art references discloses a method for allocating a temporary mobile station identifier (TMSI) in a GSM telecommunications system. As disclosed in D1, see the part "User Identity - IMSI and TMSi" on cols. 10 and 11, such a TMSI is allocated to the subscriber "if a state changes is needed" in the network, e.g. when the subscriber enters a new location area. Similar methods are to be found in D2, see the abstract, and D3, see page 3, lines 11 to 17.

Although it is recognized that these methods for allocating a temporary mobile station identifier known from D1 to D3 are substantially different from the method as described in the different embodiments of the invention, which is concerned with third generation cellular telecommunications systems, such as the UMTS system, these differences are however, in the opinion of the examiner, not sufficiently brought out in the wording of present claim 1, which can apparently be read on each of said prior art disclosures dealing with GSM systems.

This is particularly due to the use of the expression "if a state changes is needed" which is rather vague and speculative and, as such, does not sufficiently and clearly distinguish the claimed method over the available prior.

Claim 1 in its present broad formulation, therefore, does not meet the requirements of novelty set out in Article 33(2) PCT. Neither does claim 1 involve an inventive step, Article 33(3) PCT.

To overcome the above objections, it is proposed to more precisely define the "state changes", cf. e.g. the passage on page 6, lines 23 to 26.

Alternatively, the particular manner of transmitting the identifier to the mobile station as set out in dependent claims 2 and/or 4 could be incorporated into the wording of claim 1 in order to clearly and sufficiently distinguish the claimed method over the available prior art.



Concerning section VII (form and contents).

If any amended independent claims are filed, the opening part of the description including the summary of the invention (on page 7) should be brought into agreement with the wording thereof.

In order to meet the requirements of Rule 5.1.(a),(ii) PCT, at least one of the above-noted prior art document should be acknowledged by reference and briefly discussed in the introductory part of the description.

All the claims should include reference signs in parentheses where features shown in the drawings are referred to, Rule 6.2.(b) PCT.

The general "true spirit and scope" statement in the description at page 13 is unclear, and when used to interpret the claims renders them also unclear, contrary to Article 6 PCT. The statement should therefore be deleted.

The attention of the applicant is finally drawn to the fact that the application may not be amended in such a way that it contains subject-matter which extends beyond the content of the application as filed, Article 34(2)(b) PCT. Amendments should be filed by way of replacement pages in the manner stipulated by Rule 66.8(a) PCT. In particular, fair copies of the amendments should be filed preferably in triplicate. Moreover, the applicant's attention is drawn to the fact that, as a consequence of Rule 66.8(a) PCT the examiner is not permitted to carry out any amendments under the PCT procedure, however minor these may be.